

PRODUCTION OF POLYASPARTIC ACID

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Abstract of JP8277329

PURPOSE: To directly, simply and efficiently produce a polyaspartic acid salt useful as a chelating agent, a scale-preventing agent, a moisture-absorbing agent, etc., without passing through polysuccinimide by polymerizing an aspartic acid monoalkali metal salt.

CONSTITUTION: An aspartic acid monoalkali metal salt is polymerized to produce the objective polymer. The polymerization reaction is performed e.g. in a bulk or slurry state without using a catalyst, or in the presence of a small amount of a catalyst (e.g. sulfuric acid or p-toluene sulfonic acid). The using amount of the catalyst is 0.0002-0.5 mole, 0.002-0.3 mole, per mole of the component A. The reaction temperature is 100-280 deg.C, especially 130-250 deg.C. The polymerization reaction is performed in an inert gas atmosphere.

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